

Dividiere die Brüche und wandle in einen gemischten Bruch um, falls möglich:

① a) $\frac{2}{3} : \frac{4}{11} =$

b) $\frac{1}{6} : \frac{2}{45} =$

c) $\frac{1}{15} : \frac{5}{21} =$

d) $\frac{5}{7} : \frac{3}{7} =$

② a) $\frac{1}{14} : \frac{1}{26} =$

b) $\frac{1}{4} : \frac{15}{32} =$

c) $\frac{2}{17} : \frac{2}{31} =$

d) $\frac{2}{7} : \frac{1}{42} =$

③ a) $\frac{1}{12} : \frac{7}{44} =$

b) $\frac{3}{14} : \frac{4}{21} =$

c) $\frac{4}{5} : \frac{10}{23} =$

d) $\frac{3}{16} : \frac{3}{7} =$

④ a) $\frac{2}{15} : \frac{2}{15} =$

b) $\frac{1}{18} : \frac{1}{24} =$

c) $\frac{1}{8} : \frac{9}{14} =$

d) $\frac{1}{26} : \frac{2}{13} =$

⑤ a) $\frac{1}{2} : \frac{3}{28} =$

b) $\frac{2}{9} : \frac{1}{42} =$

c) $\frac{2}{35} : \frac{2}{5} =$

d) $\frac{23}{30} : \frac{3}{4} =$

Dividiere die Brüche und wandle in einen gemischten Bruch um, falls möglich:

$$\textcircled{1} \quad \text{a) } \frac{2}{3} : \frac{4}{11} = \frac{2}{3} \cdot \frac{11}{4} = \frac{1 \cdot 11}{3 \cdot 2} = 1 \frac{5}{6} \quad \text{b) } \frac{1}{6} : \frac{2}{45} = \frac{1}{6} \cdot \frac{45}{2} = \frac{1 \cdot 15}{2 \cdot 2} = 3 \frac{3}{4}$$

$$\text{c) } \frac{1}{15} : \frac{5}{21} = \frac{1}{15} \cdot \frac{21}{5} = \frac{1 \cdot 7}{5 \cdot 5} = \frac{7}{25} \quad \text{d) } \frac{5}{7} : \frac{3}{7} = \frac{5}{7} \cdot \frac{7}{3} = \frac{5 \cdot 1}{1 \cdot 3} = 1 \frac{2}{3}$$

$$\textcircled{2} \quad \text{a) } \frac{1}{14} : \frac{1}{26} = \frac{1}{14} \cdot \frac{26}{1} = \frac{1 \cdot 13}{7 \cdot 1} = 1 \frac{6}{7} \quad \text{b) } \frac{1}{4} : \frac{15}{32} = \frac{1}{4} \cdot \frac{32}{15} = \frac{1 \cdot 8}{1 \cdot 15} = \frac{8}{15}$$

$$\text{c) } \frac{2}{17} : \frac{2}{31} = \frac{2}{17} \cdot \frac{31}{2} = \frac{1 \cdot 31}{17 \cdot 1} = 1 \frac{14}{17} \quad \text{d) } \frac{2}{7} : \frac{1}{42} = \frac{2}{7} \cdot \frac{42}{1} = \frac{2 \cdot 6}{1 \cdot 1} = 12$$

$$\textcircled{3} \quad \text{a) } \frac{1}{12} : \frac{7}{44} = \frac{1}{12} \cdot \frac{44}{7} = \frac{1 \cdot 11}{3 \cdot 7} = \frac{11}{21} \quad \text{b) } \frac{3}{14} : \frac{4}{21} = \frac{3}{14} \cdot \frac{21}{4} = \frac{3 \cdot 3}{2 \cdot 4} = 1 \frac{1}{8}$$

$$\text{c) } \frac{4}{5} : \frac{10}{23} = \frac{4}{5} \cdot \frac{23}{10} = \frac{2 \cdot 23}{5 \cdot 5} = 1 \frac{21}{25} \quad \text{d) } \frac{3}{16} : \frac{3}{7} = \frac{3}{16} \cdot \frac{7}{3} = \frac{1 \cdot 7}{16 \cdot 1} = \frac{7}{16}$$

$$\textcircled{4} \quad \text{a) } \frac{2}{15} : \frac{2}{15} = \frac{2}{15} \cdot \frac{15}{2} = \frac{1 \cdot 1}{1 \cdot 1} = 1 \quad \text{b) } \frac{1}{18} : \frac{1}{24} = \frac{1}{18} \cdot \frac{24}{1} = \frac{1 \cdot 4}{3 \cdot 1} = 1 \frac{1}{3}$$

$$\text{c) } \frac{1}{8} : \frac{9}{14} = \frac{1}{8} \cdot \frac{14}{9} = \frac{1 \cdot 7}{4 \cdot 9} = \frac{7}{36} \quad \text{d) } \frac{1}{26} : \frac{2}{13} = \frac{1}{26} \cdot \frac{13}{2} = \frac{1 \cdot 1}{2 \cdot 2} = \frac{1}{4}$$

$$\textcircled{5} \quad \text{a) } \frac{1}{2} : \frac{3}{28} = \frac{1}{2} \cdot \frac{28}{3} = \frac{1 \cdot 14}{1 \cdot 3} = 4 \frac{2}{3} \quad \text{b) } \frac{2}{9} : \frac{1}{42} = \frac{2}{9} \cdot \frac{42}{1} = \frac{2 \cdot 14}{3 \cdot 1} = 9 \frac{1}{3}$$

$$\text{c) } \frac{2}{35} : \frac{2}{5} = \frac{2}{35} \cdot \frac{5}{2} = \frac{1 \cdot 1}{7 \cdot 1} = \frac{1}{7} \quad \text{d) } \frac{23}{30} : \frac{3}{4} = \frac{23}{30} \cdot \frac{4}{3} = \frac{23 \cdot 2}{15 \cdot 3} = 1 \frac{1}{45}$$